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Form PD-A-100	Serial Number: 09/973,270	Docket PD-89418A
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Applicant DONALD C. D. CHANG ET. AL	
(Use several sheets if necessary)	Filing Date October 5, 2001	Group Not Known

U.S. PATENT DOCUMENTS

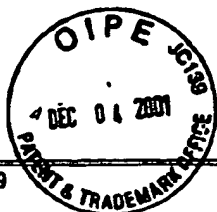
	Document Number	Date	Name	Class	Sub Class
LW	2,470,787	05/24/49	Nosker	342	12
LW	3,384,891	05/21/68	Anderson	343	6.5
LW	3,544,995	12/01/70	Bottenberg et. al	342	46
LW	3,720,953	03/13/73	Ajtoka	343	771
LW	4,161,730	07/17/79	Anderson		
LW	4,161,734	07/17/79	Anderson	343	100
LW	4,359,733	11/16/82	O'Neill	343	6.5
LW	4,613,864	9/23/86	Hotgen	343	357
LW	4,635,063	01/08/87	Chang et. al	342	380
LW	4,819,227	4/4/89	Rosen	370	75
LW	4,897,661	1/30/90	Hiraiwa	342	457
LW	4,979,170	12/18/90	Gilhausen et al.	370	104.1
LW	4,994,809	2/19/91	Yung et. al	342	108
LW	5,006,855	4/9/91	Braff	342	357
LW	5,077,562	12/31/91	Chang et. al	342	368
LW	5,099,245	3/24/92	Sagey	342	357
LW	5,111,209	5/5/92	Toriyama	342	357
LW	5,126,748	6/30/92	Ames et. al	342	353
LW	5,218,619	6/8/93	Dent	375	1
LW	5,233,626	8/3/93	Ames	375	1
LW	5,278,863	1/11/94	Briskman	375	1
LW	5,319,673	6/7/94	Briskman	375	1
LW	5,387,916	2/7/95	Cohn	342	44
LW	5,410,314	4/25/95	Frush et. al	342	26
LW	5,444,450	8/22/95	Olds et. al	342	357
LW	5,485,485	1/16/96	Briskman et. al	375	200
LW	5,525,995	6/11/96	Benner	342	90
LW	5,550,809	8/27/96	Bottomley et. al	370	18

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	Document Number	Date	Name	Class	Sub Class
LW	EP 0335 558	4/10/89	McCaughan et. al		
LW	JP 3-291584	12/20/91	Toyota		
LW	JP 09026328	01/28/97	Tokimec Inc.		
LW	JP 2-28580		Mitsubishi Electric Corp/ (Yamazaki)		
LW	JP 4-27887		Corresponding to USP 5,111,209 (copy provided)		

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Examiner	Date Considered
	12/21/04



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Form PTO-1449	Serial Number: 09/973,270	Docket PD-89418A
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Applicant DONALD C. D. CHANG ET. AL	
(Use several sheets if necessary)	Filing Date October 5, 2001	Group Not Known

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	Document Number	Date	Name	Class	Sub Class
110	5,555,257	9/10/96	Dent	370	95.1
110	5,572,216	11/05/96	Weinberg et al.	342	357
110	5,592,471	1/7/97	Briskman	455	52.3
110	5,594,941	1/14/97	Dent	455	13.4
110	5,612,701	03/18/97	Diekelman	342	354
110	5,644,572	7/1/97	Olds et. al	370	324
110	5,739,785	3/14/98	Allison et. al	342	357
110	5,790,070	08/04/98	Natarajan et al.	342	354
110	5,810,284	9/22/98	Hibbs et. al	244	13
110	5,856,804	01/05/99	Turcotte et al.	342	371
110	5,864,579	1/28/99	Briskman	375	200
110	5,903,549	05/11/99	Von der Embse et. al	370	310
110	5,909,460	6/1/99	Dent	375	200
110	5,920,284	7/6/99	Victor	342	357.01
110	5,944,770	8/31/99	Enge et. al	701	707
110	5,945,948	8/31/99	Buford et. al	342	457
110	5,949,766	09/07/99	Ibanez-Meier et.al	370	316
110	5,969,674	10/19/99	Von der Embse et. al	342	357.17
110	5,973,647	10/26/99	Barrett et. al	343	713
110	6,111,542	08/29/00	Day et al.	342	359
110	6,138,012	10/24/00	Krutz et. al	455	427
110	6,147,658	11/14/00	Higashi et. al	343	853
110	6,151,308	11/21/00	Ibanez-Meier et al.	370	316

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110	JP 07146995A	06/06/95	Nippondenso Co. Ltd. (Fumiaki)	—	—
110	JP 08015405A	01/19/96	NEC Corp. (Toshiaki)	—	—
110	JP 09113600A	05/02/97	Aqueous Res.KK (Hiroki)	—	—
110	JP 10090391A	04/10/98	Sharp Corp. (Koichi et. al)	—	—
110	GB 2306 827A	05/07/97	Intl. Mobile Satellite Org	—	—
110	GB 2271 902A	10/20/93	Caterpillar	—	—

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

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	Document Number	Date	Name	Class	Sub Class
LW	5,917,447	06/29/99	Wang et. al	342	383
LW	5,017,927	05/21/91	Agrawal et. al	342	371

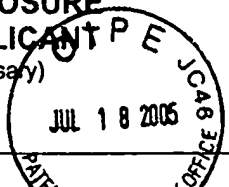
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	Document Number	Date	Name	Class	Sub Class
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LW		Bethke, K.H., "A Novel Noncooperative Near-Range Radar Network For Traffic Guidance and Control on Airport Surfaces, IEEE Transactions on Control Systems Technology, vol. 1, no. 3, Sept. 1993.
LW		Doc 9524 FANS/4-WP/76, International Civil Aviation Organization, Special Committee on Future Air Navigation Systems, Fourth Meeting, Montreal, 2-20, May 1988, Report, pp. 3.2B-2 & 3.2B-3.
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LW		Chan, K. K., et. al, "A CIRCULARLY POLARIZED WAVEGUIDE ARRAY FOR LEO SATELLITE COMMUNICATIONS", Antennas and Propagation Society, 1999, IEEE International Symposium, vol. 1, 11-16 July 1999, pp. 154-157.
LW		Oodo, M., et. al, "ONBOARD DBF ANTENNA FOR STRATOSPHERIC PLATFORM", 2000 IEEE International Conference on Phased Array Systems and Technology, Proceedings, May 21-25, 2000, pp. 125-128.
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LW		Chiba, Isamu et. al, "Digital Beam Forming (DBF) Antenna System for Mobile Communications", IEEE AES Systems Magazine, Sept. 1997, pp. 31-41.
LW		Miura, Ryu et. al, "A DBF Self-Beam-Steering Array Antenna for Mobile Satellite Applications Using Beam-Space Maximal-Ratio Combination", IEEE Trans. On Vehicular Technology, vol. 48, no. 3, May 1999, pp. 665-675.
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LW		Sakakibara, Kunio et. al, "A Two-Beam Slotted Leaky Waveguide Array for Mobile Reception of Dual-Polarization DBS", IEEE Transactions on Vehicular Technology, vol. 48, no. 1, Jan. 1999, pp. 1-7
Examiner		Date Considered 12/21/04

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Complete if Known		
	Application Number		09/973,270		
	Filing Date		October 5, 2001		
	First Named Inventor		Donald C.D. Chang		
	Art Unit		2634		
	Examiner Name		Linda Wong		
Sheet 1 of 2		Attorney Docket Number		PD-089418A	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
LW		US-3,673,606	06-1972	Maune, James J.	
LW		US-4,926,186	05-1990	Kelly, Robert J.	

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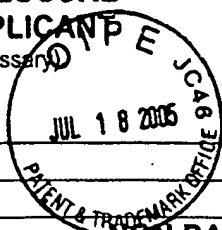
Examiner Initials*	Cite No.	Foreign Patent Document Country Code-Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
LW		EP 0190927	08-1986	Sangster, Alan John		
LW		EP 0647976	04-1995	Uematsu, Masahiro et al.		
LW		WO 97/33342 (Canadian equivalent 2,217,730 also enclosed)	09-1997	Goto, Naohisa et al.		

Examiner Signature		Date Considered	12/26/05
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	Application Number	09/973,270
	Filing Date	October 5, 2001
	First Named Inventor	Donald C.D. Chang
	Art Unit	2634
	Examiner Name	Linda Wong
Sheet 2 of 2	Attorney Docket Number	PD-089418A



NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
LW		MIURA, RYU et al., "Beamforming Experiment with a DBF Multibeam Antenna in a Mobile Satellite Environment", IEEE, April 1997, Vol. 45, No. 4, XP 000686406	

Examiner Signature		Date Considered	12/26/05
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